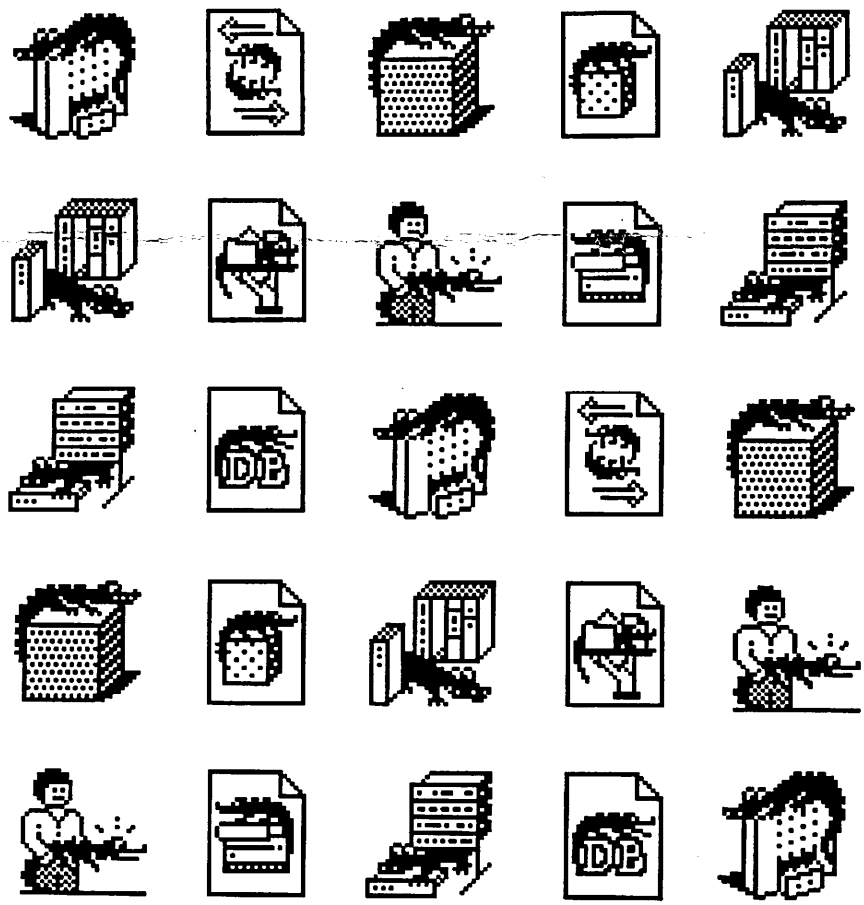
GatorBox Software Release Notes

Release 2.0

August 1991



These release notes apply to release 2.0 of the GatorBox software (GatorSystem, GatorPrint, or GatorShare), which runs on the original GatorBox, and the GatorBox CS software (GatorSystem CS, GatorPrint CS, or GatorShare CS), which runs on the GatorBox CS, the GatorMIM CS, and the GatorBox CS/Rack.

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GatorBox Software
Release Notes

These release notes are intended for network administrators who are responsible for installing, maintaining, and testing a GatorBox CS, GatorMIM CS, or GatorBox CS/Rack with the 2.0 release of the GatorSystem CS, GatorPrint CS, or GatorShare CS software (or an original GatorBox with the 2.0 release of the GatorSystem, GatorPrint, or GatorShare software). In addition to describing problems with the hardware or software, these release notes contain information that supplements or corrects the hardware and software documentation.

Before you install or use your GatorBox or GatorBox CS with the Release 2.0 software, you should read these release notes completely.

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GatorKeeper changes

This section describes changes to the GatorKeeper application made after the 2.0 documentation was printed.

Yellow Pages now called *NIS (YP)*

To make the GatorKeeper dialog boxes consistent with other vendors' terminology, the Yellow Pages authentication method is now called ***NIS (YP)***. This affects the User/Group Info dialog box (Figure 1) and the Apply Authentication dialog box (which is identical to the User/Group dialog box). No change to the functionality of the dialog box or user authentication results from the change.

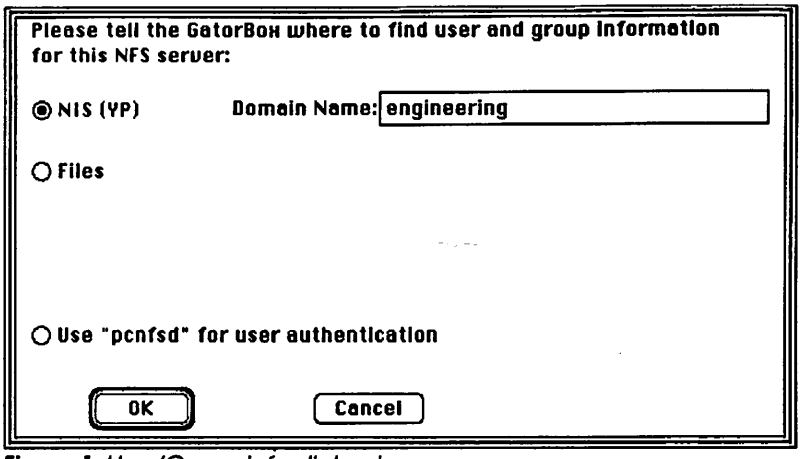

Figure 1. User/Group Info dialog box

Reload Software now called *Download and Restart*

The ***Reload Software*** command, which appears on the GatorKeeper Special menu when an original GatorBox is selected, is now called ***Download and Restart***. When this command is selected, an original GatorBox will restart and download its operating software and its configuration settings from its designated download server(s). When you select the ***Download and Restart*** command, you are asked to confirm the restart request (Figure 2).

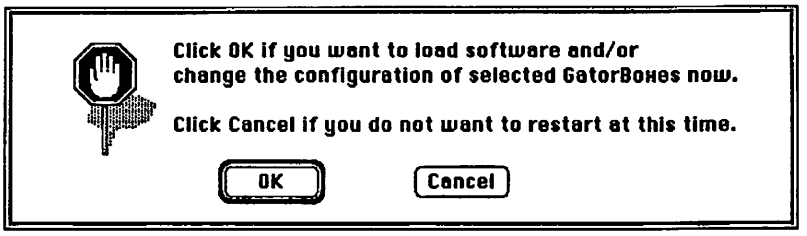
Click OK if you want to load software and/or
change the configuration of selected GatorBoxes now.
Click Cancel if you do not want to restart at this time.
OK
Cancel

Figure 2. *Download/Restart dialog box*

A ***Download*** command has been added to the GatorBox Telnet shell. When you enter the complete command ("download") in the shell, the GatorBox restarts and downloads its operating software and its configuration settings from its designated download server(s).

Passwords and security

If a password is assigned to a GatorBox, you will be prompted to enter the correct password before GatorKeeper will display the Configuration Options dialog box for that GatorBox. (Menu commands to display a GatorBox's status, diagnostics, and other information are available without a password.) The Password Entry dialog box appears in Figure 3.

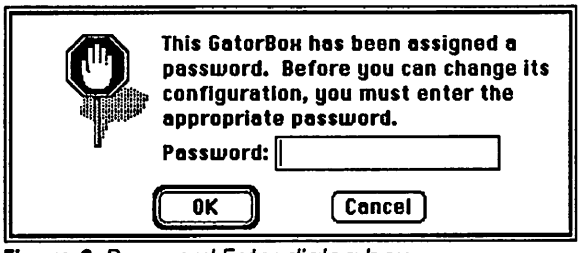

Figure 3. *Password Entry dialog box*

After you assign a password to a GatorBox, you must enter the password *exactly* as it was entered. The password assigned to a GatorBox is case-sensitive and can include leading, embedded, or trailing spaces. For example, if you assign a password of "GatoR" to a GatorBox, you could not enter "GATOR", "gator", "Gator", or "GatoR ".

For information on how security is implemented in the GatorBox, contact Cayman Technical Services.

Setting up Syslog

To set up your UNIX host to support the GatorBox diagnostic message file (syslog):

1. Configure your GatorBox to output its diagnostic messages to a syslog file on a specified UNIX host. Restart your GatorBox.

2. In `/etc/syslog.conf` add the line:

   ```
   <syslogid>.debug    /path/filename
   ```

   `<syslogid>` should match the selection (***User*** or ***Local0–Local9***) you made in the syslog popup menu in the TCP/IP Configuration dialog box in GatorKeeper. `debug` specifies that all levels of GB diagnostic messages should be recorded. Verify the destination file specified for the GatorBox syslog messages exists.

3. Execute a `ps -ax` command on your syslog host to make sure that `syslogd` is running.

4. Verify that syslog is present and uncommented in `/etc/services`. You may also need to make sure your GatorBox is in `/etc/hosts`.

5. Use the PID (process ID) from the `ps -ax` output (step 3) to re-initialize the syslog daemon:

   ```
   kill -1 <PID#>
   ```

Once you have set up your UNIX host to support the GatorBox syslog file, the first 10-12 diagnostic messages will appear in GatorKeeper when the GatorBox is restarted. Thereafter, all messages will appear in the file you specified in syslog.conf and not in GatorKeeper.

Documentation changes

This section describes additions and corrections to the 2.0 documentation.

GatorBox User's Guide

Page 7-12–7-13 Replace ***Yellow Pages*** with ***NIS (YP)***.

GatorBox Reference

Page 1-22 Replace ***Reload Software*** with ***Download and Restart***.

Page 1-25 Replace ***Yellow Pages*** with ***NIS (YP)***.

Page 1-29

- **Syslog popup menu** — Identifies the part of the system generating the syslog message. Options are:
  - ***User*** — Indicates that the syslog message is generated by a user process. This is the default facility identifier if none is specified.
  - ***Local0 – Local7*** — Allocated for local use.

Page 1-48 Replace ***Yellow Pages*** with ***NIS (YP)***.

Page 1-51

- **Delimiter:** Character used to precede the hexadecimal number of illegal characters in file names. The delimiter character itself cannot itself be included in a file name. *The default delimiter for 8-bit filename mapping and 7-bit filename mapping is: (colon). The default delimiter for 7-bit alphanumeric filename mapping is* ***x***.

Known software problems

GatorInstaller

- **Number of GatorBoxes that can be installed at one time** — The number of GatorBoxes that you can install at one time depends heavily on your network topology and traffic load. Customers have reported being able to install 10-12 GatorBoxes simultaneously, and we have installed as many as 32 under laboratory conditions. We recommend that you install no more than five (5) GatorBox CSs at a time to minimize the likelihood of installation conflicts.

- **Installer guidelines** — You cannot simultaneously install one GatorBox CS and a second GatorBox CS that you reach through the first. For example, you could install software in GatorBox1 or GatorBox2 from the Macintosh in Figure 4. However, you could not install software in both GatorBoxes simultaneously, since you have to reach GatorBox2 through GatorBox1.

  Similarly, you could install software in GatorBox1, GatorBox3, or GatorBox4 from the Macintosh running GatorInstaller in Figure 4. However, you could not install software in any two of the GatorBoxes simultaneously, since GatorBox1 and GatorBox3 form the ends of the AppleTalk tunnel. The GatorInstaller is unable to differentiate between GatorBoxes on your local network and GatorBoxes accessible through an AppleTalk tunnel.

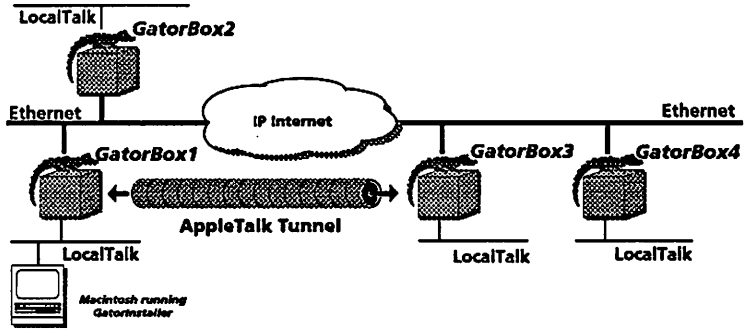

Figure 4. GatorInstaller and AppleTalk tunnels

- **Changing network connection crashes Macintosh** — If you run GatorInstaller from a Macintosh on Ethernet and you change the network connection from ***LocalTalk*** to ***EtherTalk***, the Macintosh will crash when you search for GatorBoxes.

GatorKeeper 2.0

- **A/UX or System 7.0 problems** — GatorKeeper has not been verified to be 32-bit clean. Users may experience problems running under A/UX or under System 7.0 in 32-bit addressing mode. GatorKeeper runs properly under System 7.0 if 32-bit addressing is not used.

UNIX-to-LocalTalk printing (GatorPrint)

- **Only superuser can remove print job** — A user must have superuser (root) privileges to remove a job from the GatorPrint print queue with the `lprm` command.

- **Special characters can cause problems with printing** — If one of the following characters is included in the last block of data being processed by GatorPrint with the PostScript filter turned on and international character mapping turned off, the character will not print and a PostScript error is generated.

Character	Hexadecimal	Octal
Copyright	x A9	o 0251
Trademark	x AE	o 0256
One-quarter	x BC	o 0274
One-half	x BD	o 0275
Three-quarters	x BE	o 0276
One prime	x B9	o 0271
Two prime	x B2	o 0262
Three prime	x B3	o 0263
Icelandic eth	x F0	o 0360

File sharing (GatorShare)

- **Export list cached / server access list not refreshed** — If you mount and unmount a volume and then change the exports list on the NFS server, the GatorBox does not recognize the modified exports list. The old list is cached until the GatorBox is restarted.

  Every time a new optical disk is mounted on a NeXT, the GatorBox must be restarted to make it read the new exports list.

- **Drop boxes not supported** — AppleShare drop boxes (which give non-owners write access but not read access) are not supported.

- **Symbolic links not supported** — GatorShare does not support symbolic file links.

- **GatorBox tries to mount nonexistent home directories** — GatorBox tries to mount home directories which a server may not export. For example, assume that you have two servers (A and B). A serves half the user population, B the other half. You are served by A. Open the Chooser and select server B. Included in the set of offered filesystems is your home directory, even when you don't have a home directory there.

- **Locking Macintosh files on an NFS server doesn't work** — A Macintosh file on a mounted directory can be locked (protected from changes) by using the Get Info dialog box. However, closing the Get Info dialog and closing the directory causes the file to become unlocked when the directory is reopened.

- **Using the default user's home directory with Interactive 386 PC v.5.3 doesn't work** — The Interactive 386 PC v.5.3 uses the GatorBox default server's export list and user home directory to access mount points. If a guest is defined as user in passwd file with home directory `/z/guest` and `/z` is exported as a mount point, the guest can log into `/z` as user "guest" and open `/z/guest` after mounting `/z`. When the user tries to mount `/z/guest` (home directory), the message "mount of dir failed with error 2 no such file or directory" is displayed. The solution is to delete the user's home directory default and enter the `/z/guest` mount point manually.

- **Renaming a file on a remote volume to begin with a % deletes one of the forks** — Drag a file (`my_file`) from the Macintosh to an NFS AppleDouble mount point. You now have files `my_file` and `%my_file` on the NFS side. Now, from the Macintosh, change the file name of `my_file` on the remote volume to `%my_file`. If you look on the NFS side you now have a file called `%%my_file` and no file called `my_file` or `%my_file`.

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